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Date: April 21, 2004

By: 

Rena Iov

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: WANG, CHUN *ET AL.*

APPLICATION No.: 09/938,114

FILED: AUGUST 23, 2001

FOR: **ANTITHROMBOSIS ENZYME FROM
THE SNAKE VENOM OF
AGKISTRODON ACUTUS**

EXAMINER: RITA MITRA

ART UNIT: 1653

CONF. NO: 1975

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

AS SUBMISSION UNDER 37 C.F.R. § 1.114

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

1. Timing of Submission

This information disclosure is being filed as a submission with a Request for Continued Examination Under 37 CFR § 1.114(c). The references listed on the enclosed Form PTO-1449 may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

☐ Copies of the following references are enclosed:

- ☐ All cited references
- ☐ References marked by asterisks
- ☐ The following:

- ☒ Copies of the following references can be found in parent U.S. Application No. 09/058,740 filed April 10, 1998, and issued as U.S. Patent No. 6,489,451:

- ☒ All cited references
- ☐ References marked by asterisks
- ☐ The following:

- ☐ The following references are not in English. For each such reference, the undersigned has enclosed (i) a translation of the reference; (ii) a copy of a communication from a foreign patent office or International Searching Authority citing the reference, (iii) a copy of a reference which appears to be an English-language counterpart, or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.

- ☐ All cited references
- ☐ References marked by ampersands
- ☐ The following:

- ☐ This application was filed after 30 June 2003 and no copies of U.S. patents nor published applications are enclosed (See Notice of Deputy Commissioner Kunin on 11 July 2003).

3. Effect of Information Disclosure Statement (37 CFR 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment


No fees are believed due. However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-2586.

5. Patent Term Adjustment (37 CFR 1.704(d))

- ☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of this statement. 37 CFR §1.704(d).

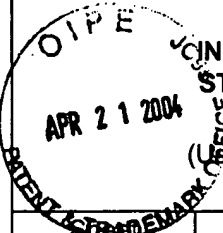
Respectfully submitted,
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Date: 4/21/04


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 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary)				COMPLETE IF KNOWN	
				Application Number	09/938,114
				Confirmation Number	1975
				Filing Date	August 23, 2001
				First Named Inventor	Chun Wang
				Group Art Unit	1653
Examiner Name	Rita Mitra				
Attorney Docket No.	54567.8001.US01				
1		of		4	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	AA	4,017,012		Brock	4/1977	
	AB	5,066,592		Huang et al.	11/1991	
	AC	5,071,773		Evans et al.	12/1991	
	AD	5,196,403		Maraganore et al.	3/1993	
	AE	5,242,810		Maraganore et al.	9/1993	
	AF	5,342,830		Scarborough	8/1994	
	AG	5,344,783		Scarborough et al.	9/1994	
	AH	5,453,370		Triplett et al.	9/1995	
	AI	5,523,292		Schwartz et al.	6/1996	
	AJ	5,686,571		Scarborough et al.	11/1997	
	AK	5,733,738		Niman	3/1998	
	AL	6,489,451		Li et al.	12/2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
	AM	CN	92102645.5			10/1992		
	AN	WO	89/04489		Niman	5/1989		
	AO	WO	91/12258		Mangelsdorf et al.	8/1991		
	AP	WO	93/09236		Schwartz et al.	5/1993		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
	AQ	Atoda et al. Blood Coagulation Factor IX-Binding Protein from the Venom of Trimeresurus flavoviridis: Purification and Characterization. J. Biochem. 118(5): 965-973, 1995.	
	AR	Robyt, J.F. "Biochemical Techniques: Theory and Practice", Waveland Press, Prospect Heights, IL, 1987 p. 300.	

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to application(s).	



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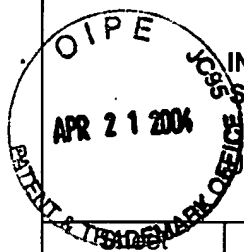
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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	AS	Bajwa et al., "Fibrinolytic enzyme(s) in western diamond-back rattlesnake (<i>crotalus atrox</i>) venom." <i>Toxicon</i> 18:285-290 (1980).	
	AT	Bayer et al., "The Avidin-Biotin Complex in Affinity Cytochemistry," <i>Methods in Enzymology</i> 62:308-319 (1979).	
	AU	Bullock et al., "Techniques in Immunocytochemistry," Academic Press, Orlando, FL: vol. 1(1982), vol. 2(1983), vol. 3(1985) (Table fo Contents Only).	
	AV	Campbell, <i>Monoclonal Antibody Technology: Laboratory Techniques in Biochemistry and Molecular Biology</i> , vol. 13, Elsevier Science Publishers, Amsterdam, The Netherlands (1984) (Table of Contents Only).	
	AW	Capecchi, "High Efficiency Transformation by Directo Microinjection of DNA into Cultured Mammalian Cells," <i>Cell</i> 22:479-488 (1980).	
	AX	Chard, <i>An Introduction to Radioimmunoassay and Related Techniques</i> , Elsevier Science Publishers, Amsterdam, The Neverlands (1986) (Table of Contents Only).	
	AY	Chen and Okayama, "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA", <i>Molecular and Cellular Biology</i> 7(8):2745-2752 (1987).	
	AZ	Chu et al., "Electroporation for the efficient transfection of mammalian cells with DNA," <i>Nucleic Acids Research</i> 15:1311-1326 (1987).	
	BA	Curiel et al., "Gene Transfer to Respiratory Epithelial Cells via the Receptor-mediated Endocytosis Pathway," <i>Am. J. Respir. Cell. Mol. Biol.</i> 6:247-252 (1992).	
	BB	Dreborg et al., "Ch. 10-The chemistry and standardization of allergens," in <i>Handbook of Experimental Immunology-vol. I: Immunochemistry</i> , 4 th Ed., edited by Weir et al., Blackwell Scientific Publications, Oxford, Engalnd, pp.10.1-10.28 (1986).	
	BC	Engvall and Perlmann, "Enzyme-Linked Immunosorbent Assay, ELISA, III. Quantitation of Specific Antibodies by Enzyme-Labeled Anti-Immunoglobulin in Antigen-Coated Tubes," <i>J. Immunology</i> 109:129-135 (1972).	

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	BD	Felgner and Ringold, "Cationic liposome-mediated transfection," <i>Nature</i> , 337:387-388 (1989).	
	BE	Felgner et al., "Lipofection: A Highly Efficient, Lipid-mediated DNA-transfection Procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84:7413-7417 (1987).	
	BF	Ferrari et al., "An in Vivo Model of Somatic Cell Gene Therapy for Human Severe Combined Immunodeficiency," <i>Science</i> 251:1363-1366 (1991).	
	BG	Fingl and Woodbury, "Chapter 1 – General Principles," in <i>The Pharmacological Basis of Therapeutics</i> 5 th edition, Goodman and Gilman editors, MacMillan Publishing Co., Inc., New York, pp. 1-46 (1975).	
	BH	Gennaro (editor), <i>Remington's Pharmaceutical Sciences</i> (1990) (Table of Contents Only).	
	BI	Goding, "Conjugation of Antibodies with Fluorochromes: Modifications to the Standard Methods," <i>J. Immunological Methods</i> 13:215-226 (1976).	
	BJ	Hurby et al., "Applications of Synthetic Peptides: Antisense Peptides," in <i>Synthetic Peptides: A User's Guide</i> , edited by Gregory A. Grant, W.H. Freeman, NY, pp. 289-307 (1992).	
	BK	Kasprzak et al., "Location of a Contract Site Between Actin and Myosin in the Three-Dimensional Structure of the Acto-S1 Complex," <i>Biochemistry</i> 28:9230-9238 (1989).	
	BL	Laemmli, "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," <i>Nature</i> 227:680-686 (1970).	
	BM	Lutz et al., "The Distribution of Two hnRNP-Associated Proteins Defined by a Monoclonal Antibody is Altered in Heat-Shocked HeLa Cells," <i>Experimental Cell Research</i> 175:109-124 (1988).	
	BN	Matsuzaki et al., "cDNA cloning of IX/X-PB, a heterogeneous two-chain anticoagulant protein from snake venom," <i>Biochem. Biophys. Res. Com.</i> 220(2):382-387 (1996).	

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	BO	Miller, "Human Gene Therapy Comes of Age," <i>Nature</i> 357:455-460 (1992).	
	BP	Morita et al., "Structure and functions of coagulation factor IX/factor x-binding protein isolated from the venom of <i>Trimeresurus flavoviridis</i> ," <i>Natural Toxins II</i> pp. 187-196 (1996).	
	BQ	Mulligan, "The Basic Science of Gene Therapy," <i>Science</i> 260:926-932 (1993).	
	BR	St. Groth and Scheidegger, "Production of Monoclonal Antibodies: Strategy and Tactics," <i>J. Immunol. Methods</i> 35:1-21 (1980).	
	BS	Sternberger et al., "The Unlabeled Antibody Enzyme Method of Immunohistochemistry: Preparation and Properties of Soluble Antigen-Antibody Complex (Horseradish Peroxidase-Antihorseradish Perioxidase) and its Use in Identification of Spirochetes," <i>J. Histochemistry and Cytochemistry</i> 18(5):315-333 (1970).	
	BT	Tijssen, <i>Practice and Theory of Enzyme Immunoassays: Laboratory Techniques in Biochemistry and Molecular Biology</i> , vol. 15 Elsevier Science Publishers, Amsterdam, The Netherlands (1985) (Table of Contents Only).	
	BU	Wilchek and Jakoby, "The Literature on Affinity Chromatography," <i>Methods in Enzymology</i> 34:3 -10 (1974).	
	BV	Yang et al., "In Vivo and In Vitro Gene Transfer to Mammalian Somatic Cells by Particle Bombardment," <i>Proc. Natl. Acad. Sci. USA</i> 87:9568-9572 (1990).	
	BW	"Preparation and study of anti-thrombus enzymes No. 1, 2 and 3," <i>Journal of the Medical Univ. of China</i> (1989).	

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